REMARKS

Favorable reconsideration of this application in light of the preceding amendments and the following remarks is respectfully requested.

No claims having been cancelled or added, the Applicants respectfully submit that claims 1-20 remain properly under consideration in this application. Claim 4 has been amended to clarify that the referenced movement is that of the carrier as it moves to the first and second positions. Claims 1, 12 and 14 have been amended to clarify the operation of the holding means. Claim 12 has also been amended to clarify that the "obstructed" portion of the object being scanned is not accessible by the frame portion of the apparatus. The Amendments to the Claims reflected above show the amended claims in marked-up form in accordance with 37 C.F.R. § 1.121.

The Applicants respectfully note that neither the Action nor the Advisory

Action has indicated whether or not the drawing filed on September 4, 2003, have

been accepted as filed. An indication of the status of this drawing is respectfully
requested.

Rejections Under 35 U.S.C. § 102(b)

Claims 1 and 12 stand rejected under 35 U.S.C. § 102(b) as anticipated by Hatley's U.S. Patent No. 5,982,839 ("Hatley"). The Applicants respectfully traverse this rejection for the reasons detailed below.

The Applicants respectfully contend that anticipation requires that "each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference," *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631 (Fed. Cir. 1987), in "as complete detail as is contained

in the ... claim," *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236 (Fed. Cir. 1989), with the structural elements "arranged as required by the claim," *In re Bond*, 910 F.2d 831 (Fed. Cir. 1990).

The Applicants respectfully contend that, as cited in the present Action, the structure defined by Hartley does not teach or suggest each and every element arranged as required by the rejected claims. The Applicants note, for example, that contrary to the characterization of "holding mechanism (54)," this element is defined differently in terms of both structure and function by Hatley, which provides:

Scanning arm 32 includes a head driving assembly 52 adjacent end 36 and coupled to scanning head 34. Head driving assembly 52 is coupled to a *gear 54* and is configured to move scanning head 34 relative to scanning arm 32. Particularly, head driving assembly 52 is configured to rotate scanning head 34 about a pivot point 56 with respect to an x-axis, e.g., the horizontal axis, a y-axis, e.g., the vertical axis, and a z-axis extending through pivot point 56. (emphasis added)

Col. 3, lines 33-40. The Applicants respectfully submit that there is no teaching or suggestion in Hatley that gear 54 acts as "a holding mechanism arranged on the frame for temporarily fixing the position of the frame adjacent the generally cylindrical object" and does not engage the surface of the object as now required by claim 1 and those claims that depend therefrom. The Applicants respectfully submit that Hatley provides that clamp 28 is used to fix the disclosed apparatus to the pipe under inspection and provides no means arranged on the arcuate frame for "temporarily fixing the position of the frame adjacent the generally cylindrical object." Absent such an element in such a configuration, Hatley cannot fairly be said to anticipate the rejected claims. The Applicants also respectfully submit that there no teaching or suggestion has been identified in Hatley that the disclosed apparatus is suitable for examining "an obstructed circumferential portion" as required by claim 1.

With regard to the contention presented in the Advisory Action that "gear (54) performs the function of temporarily fixing the frame adjacent the cylindrical object," the Applicants respectfully contend that the Examiner has conveniently ignored the necessity of clamp 28, a mechanism clearly not on the frame, in order fix the position of Hatley's apparatus adjacent the cylindrical object. The Applicants respectfully maintain that this oversight with regard to the actual mechanisms used in Hatley to fix the position of the scanning device is improper.

With respect to claim 12, the Applicants respectfully submit that the vague allusions to FIGS. 2 and 3 provided in present Action do not identify with sufficient specificity any portion of Hatley that shows or teaches a method for inspecting an "obstructed circumferential portion of a generally cylindrical object" including the steps of "positioning the sensor adjacent an obstructed portion of the generally cylindrical object ... [and] moving the sensor along a circumferential portion of the obstructed portion of the generally cylindrical object to define a scanned surface portion." The Applicants would, therefore, appreciate clarification as to the particular structures being referenced.

Further, the Applicants respectfully contend that the contention presented in the Advisory Action that because "Hatley discloses where the invention involves the inspection of pipes, which is broad enough to encompass obstructed circumferential portions" is not supported by the disclosure of Hatley. Indeed, the Applicants respectfully suggest that there is no logical or textual basis for contending that the inspection of unobstructed surfaces also encompasses the inspection of obstructed surfaces. Unless and until the Examiner can identify specific disclosure within Hatley or provide a logical explanation of the dramatic expansion of the Hatley teaching proposed by the Examiner, this rejection should be withdrawn.

The Applicants, therefore, respectfully request that these rejections be withdrawn.

Rejections Under 35 U.S.C. § 103(a)

Claims 1 and 12-19 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Hatley. The Applicants respectfully traverse this rejection and again incorporate the discussion above regarding the apparent mischaracterization of the identified elements of Hatley.

With regard to claim 13, the Applicants again respectfully contend that as discussed above the assembly of Hatley, as detailed, does not teach or suggest a "holding mechanism" provided on the frame. Indeed, as described by Hatley the apparatus includes

a remotely operated vehicle (ROV) coupled to a mounting subassembly and a scanning subassembly controllable by a computerized motion control system. In one embodiment, the mounting subassembly includes a clamp configured to be mounted to selected pipes within the RPV, and the scanning subassembly is movably coupled to the mounting subassembly.

* * *

Inspection assembly 10 includes a mounting subassembly 16 and a scanning subassembly 18. Mounting subassembly 16 includes a support element 20, or x-axis tube, and a coupling element 26. X-axis tube 20 is coupled to a clamp 28, which is removably coupled to a segment 30 of pipe 12.

Col. 2, lines 4-9, 61-66. Thus Hatley arranges the mounting subassembly 16 and the scanning subassembly 18 (which the Examiner has identified, apparently in total, as the claimed "support," Action at 2) at opposite ends of scanning arm 32. The present invention, on the other hand, incorporates the holding (mounting) mechanism for fixing the position of the frame, not on some remote mounting assembly, but on the frame itself.

The Applicants respectfully contend that no teaching or suggestion has been identified within Hatley that would lead one of ordinary skill in the art to make the configuration changes suggested in the present Action in order to obtain the claimed apparatus for practicing the claimed inspection method. Thus, while the Applicants do not necessarily dispute the Examiner's speculation regarding the manner in which the Hatley apparatus could be operated, they respectfully contend that such speculation does not address or overcome the material differences in the construction of the Hatley apparatus and the claimed device that would cause them to function in a materially different manner, particularly with regard to the inspection of obstructed surfaces.

The Applicants respectfully contend that the mere fact that reference(s) *could* be combined or modified in the manner suggested is an insufficient basis on which to maintain a rejection under 35 U.S.C. § 103(a) unless the prior art also teaches or suggests the desirability of the combination or modification. *In re Mills*, 916 F.2d 680 (Fed. Cir. 1990). Similarly, even if a device or apparatus disclosed in the prior art "may be capable of being modified to run the way the apparatus is claimed, there must be a suggestion or motivation in the reference to do so." *Id.* at 682; *In re Fritch*, 972 F.2d 1260 (Fed Cir. 1992). The Applicants respectfully contend that the present Action relies on speculation and apparently inadvertent mischaracterizations of the Hatley structure to achieve the material "modifications" necessary to read the claims onto the Hatley apparatus. The Applicants respectfully contend, therefore, that without such unsupported speculation and in light of an accurate characterization of the Hatley apparatus, Hatley cannot fairly be said to anticipate or obviate the present invention.

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The Applicants, therefore, respectfully request that these rejections be

withdrawn.

Allowable Subject Matter

The Applicants note with appreciation the Examiner's indication that claims

2-11 would be allowable if rewritten to remove their dependence from a rejected base

claim and that claim 20 is allowed. For the reasons detailed above, however, the

Applicants respectfully submit that the claims as originally filed or as amended

remain patentable over the applied prior art reference.

CONCLUSION

In view of the above remarks and amendments, the Applicants respectfully

submit that each of the pending objections and rejections have been addressed and

overcome, leaving the present application in condition for allowance. A Notice to

that effect is respectfully requested.

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If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Very truly yours,

HARNESS, DICKEY & PIERCE, P.L.C.

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GPB/dg